

Logic Model Reference Guide

Problem Statement: Current STEM teachers lack cutting edge knowledge of current research and content

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Goal: Connect STEM teachers to research lab experiences, information sessions and curriculum development so that they can return to their districts and share with others.

Rationale:

NYS is in the process of addressing a strategic plan for Science which takes into consideration the NGSS

STEM teachers lack opportunities to learn about cutting edge research and content from experts in the field in order to train students for workforce needs

Students get excited about emerging frontiers in STEM research

Inputs: →

Resources include the ESP, Master teacher network, RIT outreach, U of R outreach, Finger lakes STEM Hub and FAME (MCC)

Targeting 10 teacher participants in the first year

Facilities, research lab placements and presenters

Activities: →

Meet with BOCES ESP teachers and administrator in February 2015

-talk to STEM teacher and other science resource teachers

-determine plan/proposal to be taken to BOCES ASI's and Superintendent (including system of compensation)

-determine role of Master Teacher program

Develop a survey via survey monkey and distribute to RCSD and nine component district science teachers

Selection process for 10 teachers in the first year

Quarterly meetings during academic year with participants:
Informational session about procedure, NGSS and schedule

Outputs: →

Buy-in from BOCES

Cooperation and collaboration among resource stakeholders/providers

Information related to teacher interest related to participation and need or compensation

Participants selected

Teachers gain understanding of NGSS and importance of emerging areas of research

Outcomes:

Short Term:

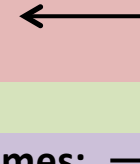
Teachers will gain a working knowledge of NGSS and learn pedagogical skills related to integration of STEM content

Medium Term:

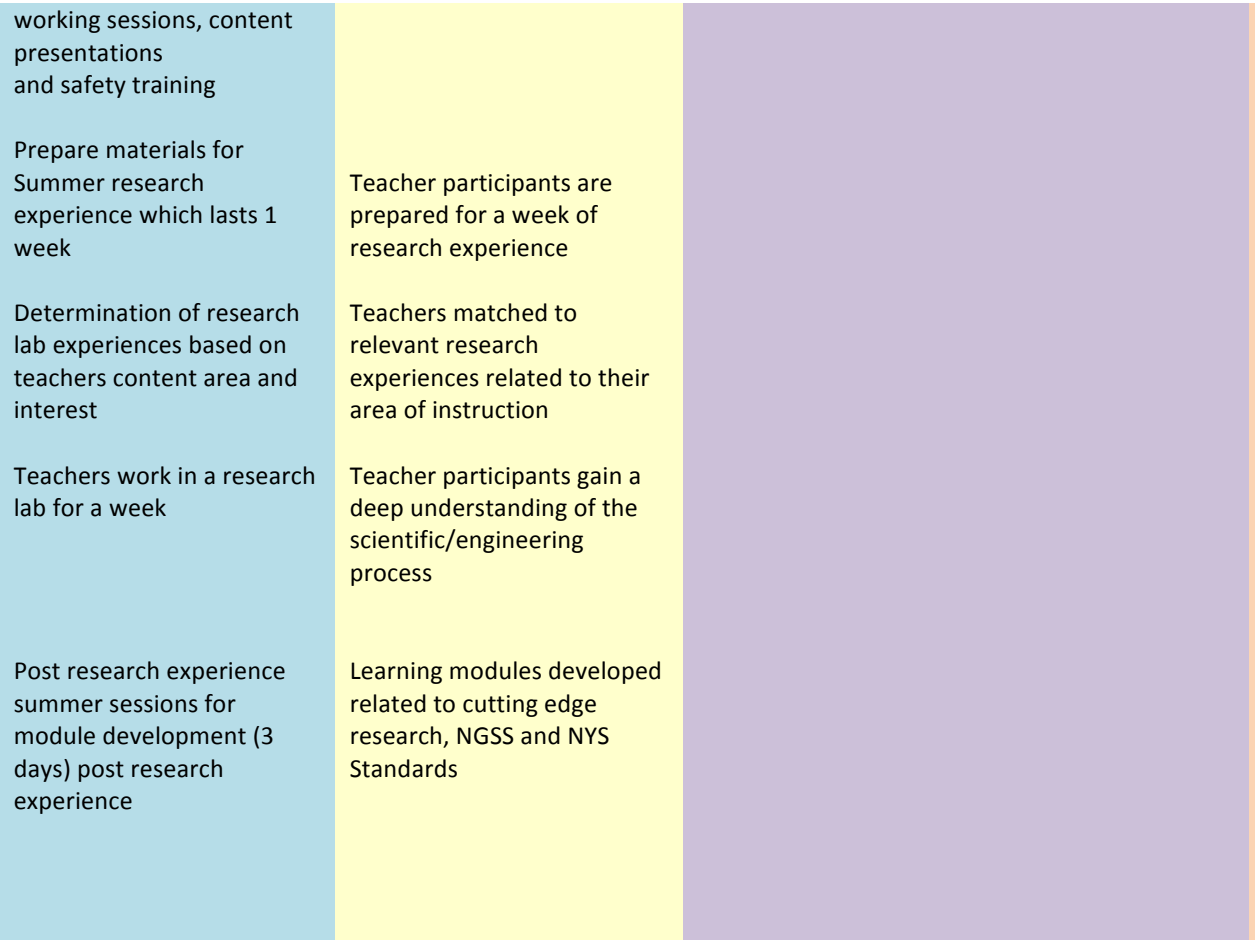
Efficacy and confidence of teacher participants increased and they have developed learning modules that can be shared among peers

Long Term:

Teacher participants are better prepared to train the next generation of STEM qualified workforce



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External Environment: In order for this project to be implemented there must be buy-in from BOCES and University partners.